

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480472

Luminaire Tested: **IFLD-S-SA6A-735-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480472  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-735-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

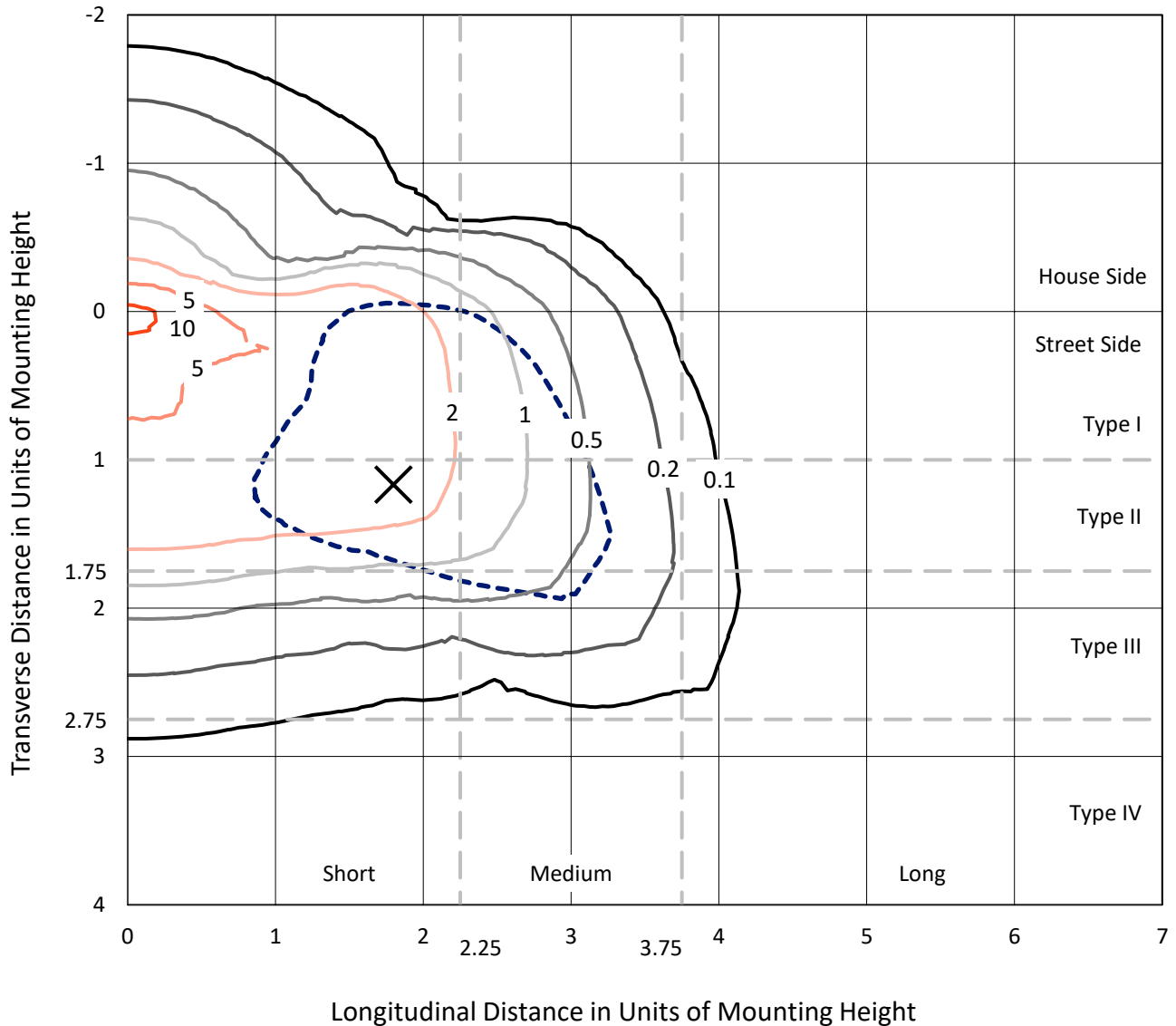
Lumens per Lamp: N/A  
Luminaire Lumens: 26266.8 lumens  
Efficiency: N/A  
Efficacy: 138.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

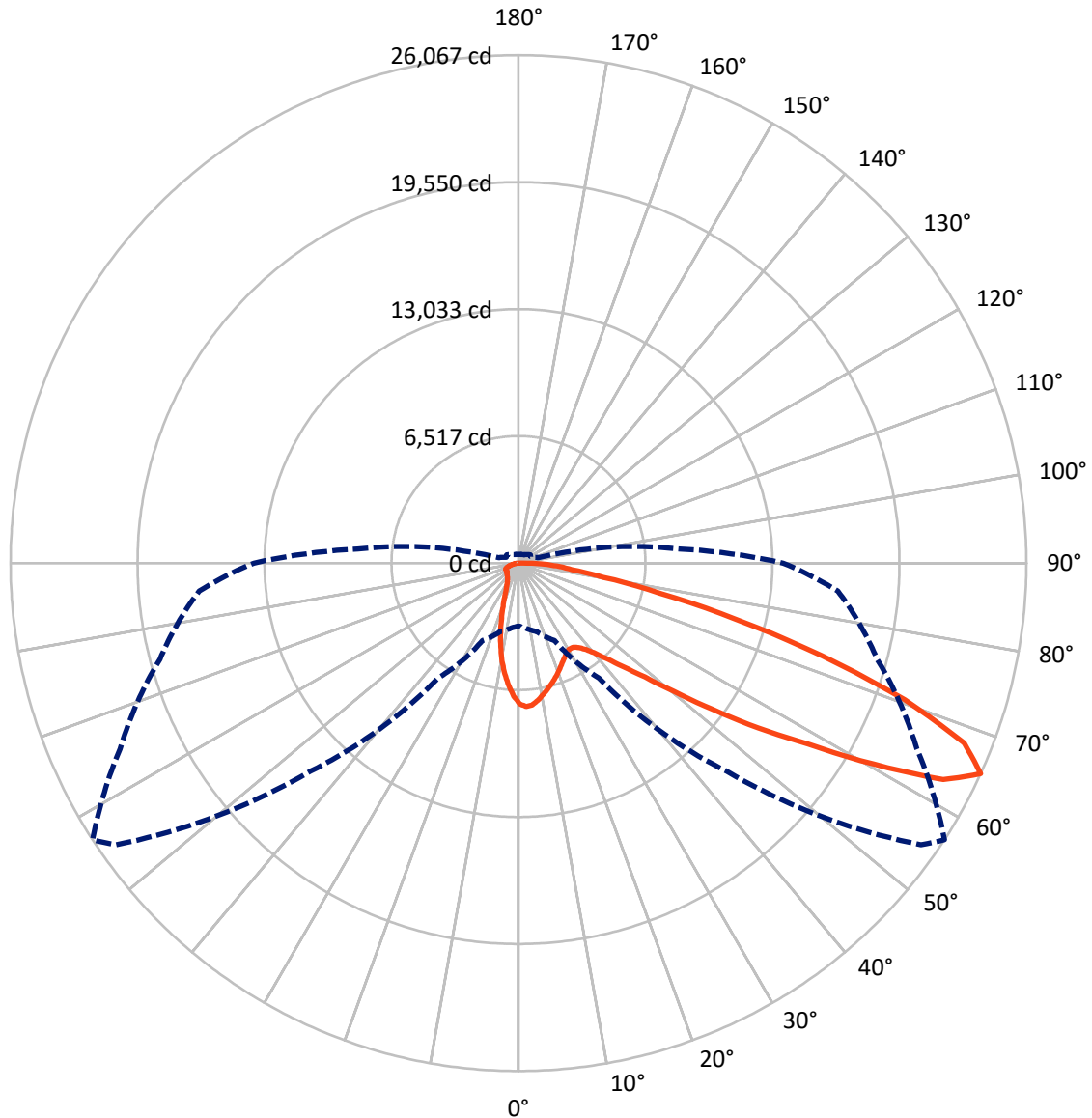
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4028.3	0.0	4028.3
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	22238.5	0.0	22238.5
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	26266.8	0.0	26266.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.9	2.3
10°-20°	1301.8	5.0
20°-30°	1683.1	6.4
30°-40°	2264.9	8.6
40°-50°	3611.4	13.7
50°-60°	6378.7	24.3
60°-70°	7017.4	26.7
70°-80°	2935.5	11.2
80°-90°	469.2	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26266.8	100.0
0°-180°	26266.8	100.0

**Coefficient of Utilization**



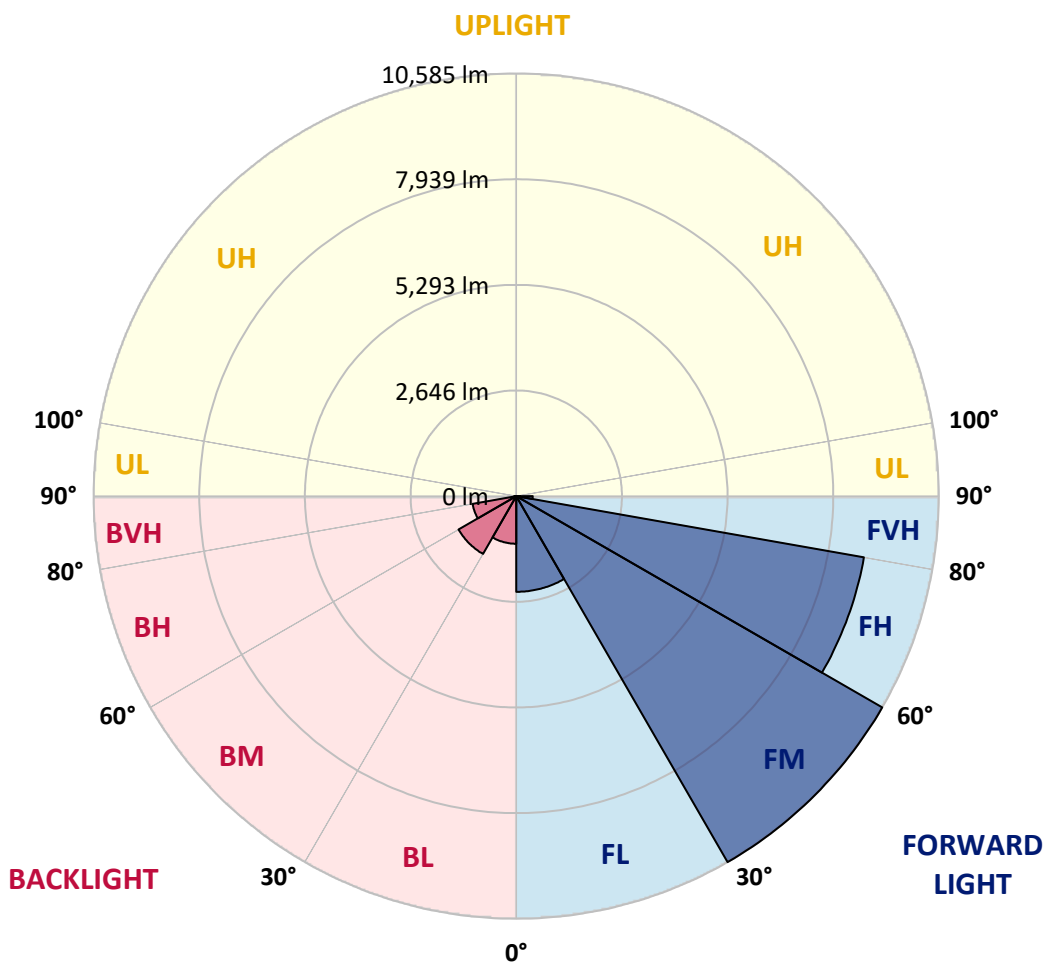
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2396.7	9.1			
FM (30°-60°)	10585.5	40.3			
FH (60°-80°)	8842.2	33.7			G4/12000
FVH (80°-90°)	414.1	1.6			G3/500
BL (0°-30°)	1193.0	4.5	B3/2500		
BM (30°-60°)	1669.5	6.4	B2/2500		
BH (60°-80°)	1110.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	55.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0
2.5°	7418.1	7429.9	7429.9	7453.5	7373.7	7412.1	7406.2	7370.8	7382.6	7320.5	7258.5
5°	7208.2	7199.4	7246.6	7252.6	7314.6	7332.4	7347.1	7323.5	7329.4	7193.4	7134.3
7.5°	6670.3	6667.4	6747.2	6815.2	6945.2	7066.4	7146.2	7122.5	7155.0	7069.3	6930.4
10°	6032.0	6100.0	6182.7	6250.7	6490.1	6643.7	6850.6	6871.3	6995.4	6974.7	6723.5
12.5°	5553.2	5582.8	5644.8	5839.9	6058.6	6312.7	6608.3	6634.9	6756.0	6815.2	6596.5
15°	5160.1	5186.7	5266.5	5411.3	5656.6	5958.1	6333.4	6401.4	6643.7	6664.4	6431.0
17.5°	4873.5	4894.1	4947.3	5092.2	5293.1	5680.3	6034.9	6156.1	6475.3	6575.8	6259.5
20°	4761.2	4716.8	4746.4	4838.0	5039.0	5337.5	5795.5	5901.9	6309.8	6507.8	6097.0
22.5°	4710.9	4672.5	4690.2	4684.3	4843.9	5056.7	5538.4	5650.7	6153.1	6428.0	5952.2
25°	4749.3	4749.3	4731.6	4716.8	4734.6	4873.5	5260.6	5435.0	5943.3	6360.0	5804.4
27.5°	4956.2	4876.4	4885.3	4823.2	4805.5	4805.5	5136.5	5239.9	5875.3	6321.6	5683.2
30°	5089.2	5127.6	5130.6	5039.0	4947.3	4781.8	5021.2	5121.7	5819.2	6368.9	5612.3
32.5°	5429.1	5411.3	5361.1	5343.4	5207.4	5021.2	5077.4	5145.4	5786.7	6475.3	5633.0
35°	5768.9	5760.1	5763.0	5754.2	5612.3	5337.5	5228.1	5319.7	5845.8	6661.5	5703.9
37.5°	6120.6	6144.3	6244.8	6244.8	6094.0	5795.5	5650.7	5624.1	6061.5	6965.9	5872.4
40°	6472.3	6531.4	6658.5	6859.5	6646.7	6368.9	6135.4	6094.0	6321.6	7373.7	6277.3
42.5°	6809.2	6906.8	7158.0	7456.5	7385.6	7107.7	6797.4	6750.1	6856.5	7979.6	6841.8
45°	7240.7	7323.5	7719.5	8177.6	8275.1	8029.8	7666.3	7627.9	7622.0	8866.2	7619.0
47.5°	7896.8	7985.5	8381.5	8842.6	9144.0	9182.4	8774.6	8733.2	8591.4	10063.1	8756.9
50°	8718.4	8863.3	9197.2	9735.1	10172.5	10583.3	10468.0	10346.9	10069.1	11455.1	10199.1
52.5°	9318.4	9495.7	9947.9	10636.5	11407.9	12061.0	12474.8	12474.8	11836.4	12983.1	11933.9
55°	9478.0	9584.4	10154.8	11150.7	12471.8	14123.9	14989.8	14924.8	13940.6	14590.8	13952.5
57.5°	8842.6	8981.5	9673.0	10716.3	13030.4	16053.7	17487.1	17501.9	16239.9	16458.6	15944.4
60°	7093.0	7137.3	7953.0	9347.9	12492.5	17608.3	20897.6	20953.8	18855.5	18122.5	16958.1
62.5°	4903.0	5044.9	5659.6	6883.1	10349.8	17433.9	24187.0	24464.8	20950.8	19000.3	17117.7
65°	3227.3	3313.0	3641.1	4385.8	7205.3	15111.0	25209.6	26066.6	22552.7	19050.5	16449.8
67.5°	2340.7	2355.5	2453.0	2837.2	4329.7	10867.0	23462.9	24671.7	23152.6	18630.9	14883.4
70°	1891.5	1903.3	1938.7	2184.0	2795.8	6800.4	19136.2	21030.6	21352.8	16641.9	11987.1
72.5°	1536.8	1551.6	1595.9	1826.4	2305.2	3782.9	13993.8	16302.0	17368.9	12312.2	7967.8
75°	1208.8	1220.6	1327.0	1554.5	2166.3	2597.8	9282.9	11543.8	11688.6	7196.4	3729.7
77.5°	827.5	848.2	978.2	1318.1	2039.2	2272.7	5786.7	7394.4	6634.9	2816.5	1282.6
80°	526.1	555.6	632.5	998.9	1802.8	2169.3	3599.7	4415.4	2905.2	963.5	617.7
82.5°	310.3	339.9	416.7	647.2	1415.6	2012.6	2535.7	2763.3	1362.4	493.6	372.4
85°	171.4	192.1	251.2	390.1	830.5	1788.0	2030.4	1983.1	780.2	263.0	233.5
87.5°	56.2	65.0	91.6	156.6	342.8	842.3	1217.6	1143.7	404.9	121.2	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0	7223.0
2.5°	7217.1	7208.2	7075.2	6974.7	6803.3	6661.5	6605.3	6528.5	6525.5	6469.4	6454.6
5°	7042.7	6951.1	6747.2	6552.1	6247.7	6043.8	5857.6	5727.6	5674.4	5559.1	5532.5
7.5°	6818.1	6696.9	6383.7	6017.2	5659.6	5340.4	5050.8	4761.2	4598.6	4542.5	4480.4
10°	6584.6	6371.8	5907.8	5497.0	4997.6	4507.0	4051.9	3644.0	3422.4	3265.7	3197.7
12.5°	6398.4	6114.7	5523.6	4908.9	4249.9	3593.8	3064.8	2636.2	2385.0	2266.8	2213.6
15°	6188.6	5813.3	5104.0	4326.7	3505.1	2760.3	2243.2	1906.2	1805.8	1749.6	1740.7
17.5°	5967.0	5532.5	4648.8	3753.4	2778.1	2077.6	1743.7	1607.7	1563.4	1539.8	1527.9
20°	5760.1	5281.3	4181.9	3115.0	2175.2	1666.8	1510.2	1439.3	1436.3	1448.1	1445.2
22.5°	5467.5	4953.3	3720.9	2523.9	1737.8	1451.1	1350.6	1332.9	1350.6	1365.4	1371.3
25°	5302.0	4684.3	3206.6	2003.8	1436.3	1288.6	1256.0	1250.1	1276.7	1294.5	1291.5
27.5°	5130.6	4406.5	2727.8	1604.8	1259.0	1173.3	1167.4	1173.3	1199.9	1226.5	1223.5
30°	4997.6	4184.8	2278.6	1341.8	1123.1	1090.5	1084.6	1090.5	1105.3	1108.3	1108.3
32.5°	4888.2	3921.8	1897.4	1164.4	1040.3	1013.7	1019.6	1016.7	1019.6	1022.6	1025.5
35°	4823.2	3765.2	1584.1	1055.1	972.3	951.6	948.7	939.8	942.8	945.7	942.8
37.5°	4962.1	3688.3	1335.8	978.2	925.0	907.3	901.4	895.5	886.6	886.6	886.6
40°	5172.0	3647.0	1185.1	928.0	889.6	868.9	851.2	845.2	845.2	848.2	851.2
42.5°	5588.7	3714.9	1081.7	889.6	845.2	821.6	803.9	806.8	815.7	824.6	818.6
45°	6191.6	3921.8	1034.4	860.0	818.6	786.1	774.3	771.4	780.2	795.0	806.8
47.5°	6980.7	4244.0	1016.7	833.4	800.9	756.6	741.8	750.7	762.5	783.2	774.3
50°	8272.2	4968.0	1031.4	809.8	774.3	741.8	724.1	715.2	724.1	738.9	744.8
52.5°	9959.7	6283.2	1087.6	798.0	756.6	730.0	700.4	685.7	694.5	706.3	706.3
55°	11978.2	8080.1	1244.2	783.2	727.0	712.3	679.7	650.2	656.1	656.1	653.1
57.5°	13757.4	9436.6	1430.4	762.5	709.3	688.6	647.2	611.8	605.9	608.8	611.8
60°	14555.4	9797.2	1519.1	756.6	709.3	659.1	602.9	567.4	558.6	552.7	552.7
62.5°	14416.5	9173.6	1338.8	730.0	727.0	635.4	561.5	523.1	511.3	499.5	502.4
65°	13577.1	8284.0	1055.1	694.5	730.0	620.6	520.2	481.7	461.0	446.3	443.3
67.5°	12043.3	7072.3	836.4	667.9	700.4	594.0	484.7	440.4	422.6	407.8	401.9
70°	9421.8	5544.3	727.0	632.5	629.5	529.0	443.3	404.9	378.3	360.6	360.6
72.5°	6108.8	3505.1	623.6	561.5	543.8	443.3	384.2	360.6	339.9	325.1	325.1
75°	2766.3	1628.4	502.4	469.9	443.3	354.6	325.1	313.3	295.5	280.8	280.8
77.5°	993.0	694.5	375.3	369.4	331.0	274.9	263.0	254.2	242.3	227.6	227.6
80°	555.6	440.4	280.8	268.9	230.5	203.9	189.1	189.1	183.2	174.4	171.4
82.5°	351.7	286.7	206.9	180.3	150.7	135.9	130.0	127.1	124.1	112.3	109.3
85°	221.7	195.1	135.9	106.4	88.7	68.0	65.0	62.1	56.2	50.2	50.2
87.5°	100.5	112.3	53.2	32.5	23.6	14.8	8.9	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)